

**UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE**

ECOLOGICAL SITE DESCRIPTION

ECOLOGICAL SITE CHARACTERISTICS

Site Type: Forest
Site ID: F036XB002NM
Site Name: *Juniperus monosperma* Juniper woodland Zuni Reservation
Major Land Resource Area and Common Resource Area MLRA 36 CRA-WP-2
Precipitation or Climate Zone: 13-14" Western Plateau Zuni Reservation
Phase: _____

ORIGINAL SITE DESCRIPTION APPROVAL:

Site Date: June 26, 2002
Site Author: Steve Lacy
Site Approval: _____
Approval Date: _____

REVISIONS:

Revision Date: _____
Revisor: _____
Revision
Approval: _____
Approval Date: _____
Revision Notes: _____

PHYSIOGRAPHIC FEATURES

Narrative:

The western plateau ranges from 6,600-8,000 feet. It consists of an area of broad mesas and plateaus interspersed with numerous deep canyons and dry washes.

LAND FORM:

1. plateau
2. hill
3. _____

ASPECT:

1. all
2. _____
3. _____

Elevation (feet)	Minimum 6,000	Maximum 7,000
Slope (percent)		
Water Table Depth (inches)		
Flooding:	Minimum	Maximum
Frequency	none	
Duration		
Ponding:	Minimum	Maximum
Depth (inches)	none	
Frequency		
Duration		

Runoff Class:

CLIMATIC FEATURES

Narrative:

The western plateau area experiences cool, wet winters and warm summers with monsoon moisture from July to September.

Frost-free period (days):	Minimum 115	Maximum 135
Freeze-free period (days):		
Mean annual precipitation (inches):	13	14

Monthly moisture (inches) and temperature (°F) distribution:

	Avg. Precip. In.	Avg. Snowfall Total	Temp. Min.	Temp. Max.
January	0.88	4.5	16.4	46.5
February	0.71	3.0	20.4	50.8
March	0.93	3.0	24.8	56.8
April	0.61	0.7	30.6	65.5
May	0.46	0.2	38.2	74.7
June	0.42	-	46.4	85.0
July	1.95	-	54.4	88.4
August	2.23	-	53.8	85.4
September	1.21	-	46.3	80.1
October	1.20	0.4	35.0	69.8
November	0.79	1.4	24.4	56.4
December	0.81	4.7	17.1	47.7

Climate Stations:

			Lat	Long	Period		
Station ID	Zuni	Location	3504	10850	From:	1984	To: 1999
Station ID		Location			From:		To:
Station ID		Location			From:		To:
Station ID		Location			From:		To:
Station ID		Location			From:		To:

INFLUENCING WATER FEATURES**Narrative:**

Wetland description:

System	Subsystem	Class

If Riverine Wetland System enter Rosgen Stream Type:

REPRESENTATIVE SOIL FEATURES

Narrative:

These soils are very deep, well-drained, moderately permeable soils formed in medium to moderately fine textured material. These soils are on hills, ridges, and farm remnants. Slopes range from 1 to 8 percent.

Parent Material Kind: slope alluvium

Parent Material Origin: sandstone, shale, conglomerate

Surface Texture:

1. fine sandy loam's

2. sandy loam's

3. loam's

Surface Texture Modifier:

1. none to extreme

2.

3.

Subsurface Texture Group:

Surface Fragments $\leq 3''$ (% Cover): 0-65%

Surface Fragments $> 3''$ (% Cover): 0%

Subsurface Fragments $\leq 3''$ (%Volume): 0-5%

Subsurface Fragments $\geq 3''$ (%Volume): 0%

	Minimum	Maximum
Drainage Class:	<u>well</u>	
Permeability Class:	<u>0.6</u>	<u>2.0</u>
Depth (inches):	<u>40''</u>	<u>>80''</u>
Electrical Conductivity (mmhos/cm):	<u>0</u>	<u>4</u>
Sodium Absorption Ratio:	<u>0</u>	<u>0</u>
Soil Reaction (1:1 Water):	<u>7.0</u>	<u>7.8</u>
Soil Reaction (0.1M CaCl ₂):	<u>-</u>	
Available Water Capacity (inches):	<u>01''</u>	<u>9''</u>
Calcium Carbonate Equivalent (percent):	<u>0</u>	<u>10</u>

Soil survey associations:

This ecological site is associated with the map units and soil components in the following soil surveys. Future updates to this soil survey may affect these associations. For up-to-date associations between soil components and this ecological site, refer to NASIS. Associations between ecological sites and soil components are maintained in NASIS via the ecological site ID.

MAP UNIT NAME

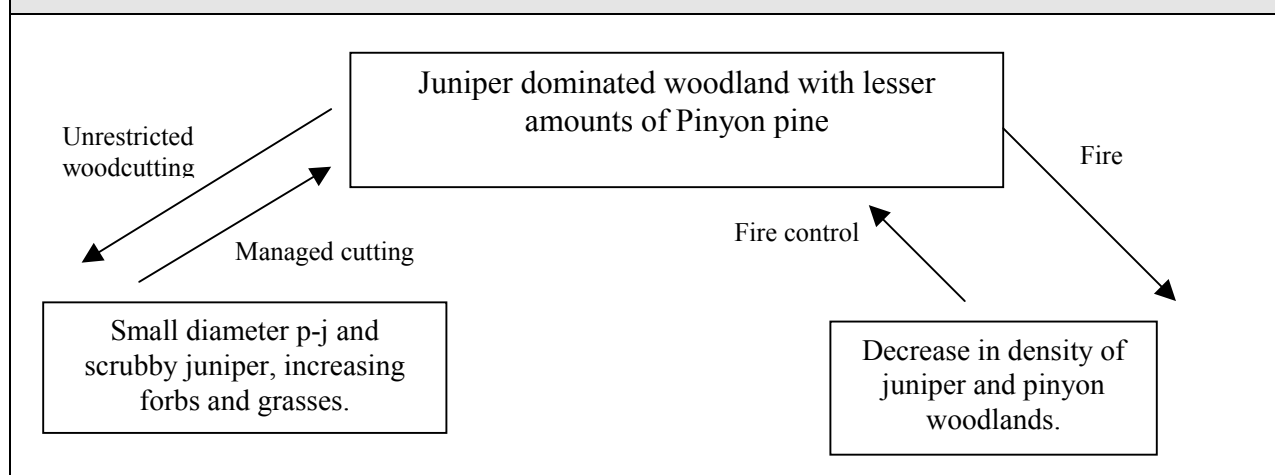
<u>Soil survey</u>	<u>Map unit symbol</u>	<u>Soil components</u>
McKinley SS	566	BAMAC

PLANT COMMUNITIES

Ecological Dynamics of the Site:

The juniper dominant woodland on the western plateau occupies the mesas and plateaus where less effective moisture is available. The juniper competes effectively on drier sites. The trees are somewhat scrubby and bushy.

Plant Communities and Transitional Pathways (diagram)



Interpretive Plant Community: Naturalized Plant Community

Ground Cover and Structure:

Cover Type	Percent Ground Cover by Height Class (feet)								
	<.5	.5-1	>1-2	>2-4.5	>4.5-13	>13-40	>40-80	>80-120	>120
Grass/Grass Like									
Forb									
Shrub/Vine									
Tree									
Lichen									
Moss									
Litter									
Course Fragment									
Bare Ground									

Forest Overstory Composition:

The typical forest overstory composition of the historic climax community.

Common Name	Scientific Name	Percent Composition (percent by frequency)
Rocky Mountain juniper	<i>Juniperus monosperma</i>	
Pinyon pine	<i>Pinus edulis</i>	
Total		

Forest Understory Composition:

The typical annual production of understory species to a height of 4.5 feet (excluding boles of trees) under low, high, and representative canopy covers.

Common Name	Scientific Name	Annual Production Per Acre Percent and Pounds (air-dry weight)					
		Canopy Cover Percent					
		80		90		100	
		%	lbs	%	lbs	%	lbs
Total Annual Production							

Typical Climax Community:

Rocky Mountain juniper and some Pinyon pine in moderately dense stands. Some grasses in openings between the trees.

Plant Community: (as it exists today)**Ground Cover and Structure:**

Cover Type	Percent Ground Cover by Height Class (feet)								
	<.5	.5-1	>1-2	>2-4.5	>4.5-13	>13-40	>40-80	>80-120	>120
Grass/Grass Like									
Forb									
Shrub/Vine									
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Common Name	Scientific Name	Annual Production Per Acre Percent and Pounds (air-dry weight)					
		Canopy Cover Percent					
		75		85		95	
		%	lbs	%	lbs	%	lbs

Plant Community: (as it exists today)

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ECOLOGICAL SITE INTERPRETATIONS

Forest Site Productivity

Common Name	Scientific Name	Annual Productivity (per acre per year)						
		Site Index		Cubic Feet (CMAI)		Other Units		
		Low	High	Low	High	Low	High	Unit

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Map Unit Name

Soil Survey

Map Unit Symbol

Soil Components

ECOLOGICAL SITE INTERPRETATIONS

Animal Community:

Plant Preference by Animal Kind:

Animal Kind: _____

Animal Type: _____

Common Name	Scientific Name	Plant Part	Forage Preferences											
			J	F	M	A	M	J	J	A	S	O	N	D

Animal Kind: _____

Animal Type: _____

Common Name	Scientific Name	Plant Part	Forage Preferences											
			J	F	M	A	M	J	J	A	S	O	N	D

Hydrology Functions:

Recreational Uses:

Wood Products:

Other Products:

Other Information:

Supporting Information

Associated Sites:

<u>Site Name</u>	<u>Site ID</u>	<u>Site Narrative</u>
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Similar Sites:

<u>Site Name</u>	<u>Site ID</u>	<u>Site Narrative</u>
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Inventory Data References (narrative):

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Inventory Data References:

<u>Data Source</u>	<u>Number of</u> <u>Records</u>	<u>Sample Period</u>	<u>State</u>	<u>County</u>
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State Correlation:

This site has been correlated with the following sites: _____

Type Locality:

State:	<u>New Mexico</u>
County:	<u>McKinley</u>
Latitude:	_____
Longitude:	_____
Township:	<u>T 9 N</u>
Range:	<u>R 21 W</u>
Section:	<u>22</u>

Is the type locality sensitive? Yes ☐ No ☐

General Legal Description: _____

Relationship to Other Established Classifications:

Other References: